

IN THE CLAIMS:

Please cancel claims 1 - 35, without prejudice. ✓

Please add new claims 36 - 136, as indicated below.

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36. (New) A communications card following the PCMCIA Type III standard for dimensions and configuration, for use in a data utilization device and for receiving an RJ-xx series plug having a biased clip including an engagement ridge, and for making electrical connection with at least first and second electrical contacts provided on such a plug, wherein the communications card includes a recess in a face of the card for receiving a RJ-xx series plug, the recess being oriented such that the direction the RJ-xx plug travels when being inserted the recess is substantially parallel to the two larger surfaces of the card, the recess including first and second electrical conductors positioned such that they make contact with the first and second electrical contacts respectively of an RJ-xx plug when such a plug is received in the recess and wherein a channel is formed in a wall of the recess to hold the biased clip of an RJ-xx plug received in the recess, the channel including an edge for engaging the engagement ridge of the clip of an RJ-xx series plug.

37. (New) The communications card of claim 36, wherein the channel is a T-shaped channel.

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38. (New) The communications card of claim 37, wherein the T-shaped channel includes a first channel portion running from the face of the card in which the recess is located in a direction substantially perpendicular said face, for receiving the arm of the clip of an RJ-xx series plug and a second channel portion substantially perpendicular to the first channel portion, said second channel portion including the edge for engaging the engagement ridge of the clip of an RJ-xx series plug.

39. (New) The communications card of claim 36, wherein the channel formed in the wall of the recess extends through an outer surface of the communications card to form an opening.

40. (New) The communications card of claim 39, further comprising a cover overlying the opening formed where the channel extends through an outer surface of the communications card.

41. (New) A communications card for use in a data utilization device and for receiving an RJ-xx series plug having a biased clip and for making electrical connection with at least first and second electrical contacts provided on the plug, the communications card comprising:

a communications card with a height and a length compliant with the PCMCIA standards for a Type III card;

a first surface, the first surface forming an outer surface of the card;

a first end;

first recess means provided at the first end, the first recess means having dimensions such that the plug is closely received therein, the recess means being oriented such that the direction the RJ-xx series plug travels when being inserted into the recess means is substantially parallel to the first surface and substantially perpendicular to the first end;

a first electrical conductor provided in the first recess means, the first electrical conductor being positioned such that it makes electrical continuity with a first electrical contact in the plug when the plug is received by the first recess means;

a second electrical conductor provided in the first recess means, the second electrical conductor being positioned such that it makes electrical continuity with a second electrical contact in the plug when the plug is received by the first recess means;

means for conveying any electrical signal present on the first and second electrical contacts to the communications card; and

a first biased clip receiving structure adjacent to the first recess means, the first biased clip receiving structure

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shaped to receive the biased clip when the RJ plug is inserted into the recess means and functioning to hold the biased clip and the plug in operative engagement in the first recess means.

42. (New) The communications card of claim 41, wherein the communications card complies with PCMCIA standards for a Type III card.

43. (New) The communications card of claim 41, wherein the biased clip receiving structure further comprises a first cutout formed on a wall of the recess means.

44. (New) The communications card of claim 43, wherein the first cutout formed in the wall of the recess extends through the first surface of the communications card to form an opening.

45. (New) The communications card of claim 44, further comprising a cover overlying the opening formed where the cutout extends through a first surface of the communications card.

46. (New) The communications card of claim 45, wherein the cover has a thickness from about 0.001 inch to about 0.050 inches.

47. (New) The communications card of claim 45, further comprising the cover being constructed from an elastic material.

48. (New) The communications card of claim 45, further comprising the cover straddling the entire first surface of the communications card.

49. (New) The communications card of claim 41, further comprising:

a second surface, the second surface being substantially parallel to the first surface and forming upper and lower surfaces of the communications card;

second recess means provided at the first end, the second recess means having dimensions such that a second RJ-xx plug is closely received therein, the second recess means being oriented such that the plug is received therein both between and parallel to the first and second surfaces;

a third electrical conductor provided in the second recess means, the third electrical conductor being positioned such that it makes electrical continuity with a first electrical contact in the second plug when the second plug is received by the second recess means;

a fourth electrical conductor provided in the second recess means, the fourth electrical conductor being positioned

such that it makes electrical continuity with a second electrical contact in the plug when the plug is received by the second recess means;

means for conveying any electrical signal present on the first and second electrical contacts to the communications card; and

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a second biased clip receiving structure adjacent to the second recess means, the second biased clip receiving structure shaped to receive the biased clip when the RJ plug is inserted into the second recess means.

50. (New) The communications card of claim 49, wherein the second biased clip receiving structure further comprises a cutout formed on a wall of the second recess means.

51. (New) The communications card of claim 50, wherein the cutout formed in the wall of the second recess means extends through the first surface of the communications card to form an opening.

52. (New) The communications card of claim 51, further comprising:

a cover attached to the first surface, wherein the cover overlies the cutout.

53. (New) The communications card of claim 52, wherein the cover has a thickness from about 0.001 inch to about 0.050 inches.

54. (New) The communications card of claim 52, further comprising the cover being constructed from an elastic material.

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55. (New) The communications card of claim 52, further comprising the cover straddling the entire first surface of the communications card.

56. (New) The communications card of claim 52, further comprising a connector located on the first end, the connector adapted for communicatively connecting to a cable.

57. (New) The communications card of claim 56, further comprising a connector adapted for communicatively connecting to a cellular phone.

58. (New) The communications card of claim 41, wherein the first surface is substantially planar and is selected from the group consisting of a top surface, a bottom surface, a first side surface, and a second side surface.

59. (New) The communications card of claim 49, wherein the second surface is an exterior surface of the communications card.

60. (New) The communications card of claim 41, further comprising a connector located on the first end, the connector adapted for communicatively connecting to a cable.

61. (New) The communications card of claim 60, further comprising a connector adapted for communicatively connecting to a cellular phone.

62. (New) A communications card, complying with the PCMCIA Type III standards, for use in a data utilization device and for receiving an RJ-xx series plug and for making electrical connection with at least first and second electrical contacts provided on the plug, comprising:

a first surface;

a second surface;

a first end;

first recess means provided at the first end, the first recess means having dimensions such that the plug is closely received therein, the first recess means oriented such that the plug is inserted therein in a direction perpendicular to the first end;



a first electrical conductor provided in the first recess means, the first electrical conductor being positioned such that it makes electrical continuity with a first electrical contact in the plug when the plug is received by the first recess means;

a second electrical conductor provided in the first recess means, the second electrical conductor being positioned such that it makes electrical continuity with a second electrical contact in the plug when the plug is received by the first recess means; and

means for conveying any electrical signal present on the first and second electrical contacts to the communications card.

63. (New) The communications card of claim 62, further comprising:

second recess means provided at the first end, the second recess means having dimensions such that the plug is closely received therein, the second recess means oriented such that the plug is inserted therein in a direction perpendicular to the first end;

a third electrical conductor provided in the second recess means, the third electrical conductor being positioned such that it makes electrical continuity with a first

electrical contact in the plug when the plug is received by the second recess means;

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a fourth electrical conductor provided in the second recess means, the fourth electrical conductor being positioned such that it makes electrical continuity with a second electrical contact in the plug when the plug is received by the second recess means; and

means for conveying any electrical signal present on the first and second electrical contacts to the communications card.

64. (New) A device for use in a host system having a PCMCIA Type III standard slot, the device being adapted to connect the device to an information transfer system, the device comprising:

a housing having longitudinal sides, a front end and a rear portion, at least the rear portion of the housing having a thickness conforming substantially to thickness of the PCMCIA Type III standard;

a connector at the front end of the housing adapted to be received by a corresponding connector within the slot of the host system, the connector being electrically connected to a first means for conveying any electrical signal present on the corresponding connector to the device;

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at least one receptacle, the at least one receptacle being defined at the rear portion of the housing, the at least one receptacle being sized and configured to receive an RJ-type plug which is inserted into the at least one receptacle in a direction substantially perpendicular to the front end and the at least one receptacle including a plurality of contacts, a plurality of contact wires being located in the at least one receptacle, each of said contact wires being shaped and positioned for engagement with a corresponding contact on the RJ-type plug, the contacts on the RJ-type plug being adapted to engage the contact wires in the at least one receptacle when the plug is inserted into the receptacle, each of said contact wires being electrically connected to a second means for conveying any electrical signal present on the electrical contacts to the device, wherein the device is adapted to be directly connectable to the information transfer system utilizing the RJ-type plug.

65. (New) A device as defined in claim 64, further comprising a rear end included in the rear portion, and in which:  
the front end and rear ends are transverse front and rear ends and the housing has an overall length extending between the transverse front and rear ends, said overall length conforming to the PCMCIA length standard.

66. (New) A device as defined in claim 64, further comprising:

a second receptacle, the second receptacle including a plurality of contact wires extending into the second receptacle, each contact wire shaped and positioned for engagement with a corresponding contact on a second RJ-type plug.

67. (New) A device as defined in claim 66, in which:  
the second receptacle is sized and configured to receive an RJ-type plug.

68. (New) A device as defined in claim 67, wherein:  
the second receptacle is sized and configured to receive an RJ-11 plug.

69. (New) A device as defined in claim 68, wherein:  
the second receptacle is sized and configured to receive an RJ-45 plug.

70. (New) A device as defined in claim 64, further comprising a telecommunications connector located on the rear end of the device, the telecommunications connector configured to be connected to a portable telephone.

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71. (New) A device as defined in claim 70, wherein the telecommunications connector is configured to be connected to the portable telephone using an interconnecting cable.

*72.*  
72. (New) A communications card for use in a data utilization device and for receiving an RJ-xx series plug, the RJ-xx series plug having a biased clip and a plug block, the plug block bearing a first electrical contact and a second electrical contact, the communications card making electrical connection with at least the first and the second electrical contacts provided on the plug block, the communications card comprising:

a thickness and a length which is substantially compliant with PCMCIA standards, the thickness of the communications card conforming substantially to the thickness of the PCMCIA Type III standard of 10.5 millimeters, such that a thickness of the plug block constitutes at least about 64% of the thickness of the communications card;

a first surface, the first surface forming an outer surface of the communications card;

a first end;

first recess means provided at the first end, the first recess means having dimensions such that the RJ-xx series plug is closely received therein, the recess means being oriented such that the direction the RJ-xx series plug travels when

being inserted into the first recess means is substantially parallel to the first surface and substantially perpendicular to the first end;

a first electrical conductor provided in the first recess means, the first electrical conductor being positioned such that it makes electrical continuity with the first electrical contact in the RJ-xx series plug when the RJ-xx series plug is received by the first recess means;

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a second electrical conductor provided in the first recess means, the second electrical conductor being positioned such that it makes electrical continuity with the second electrical contact in the RJ-xx series plug when the RJ-xx series plug is received by the first recess means;

means for conveying any electrical signal present on the first and second electrical contacts to the data utilization device; and

a first biased clip receiving structure adjacent to the first recess means, the first biased clip receiving structure configured to receive the biased clip when the RJ-xx series plug is inserted into the first recess means and functioning to hold the biased clip and the RJ-xx series plug in operative engagement in the first recess means.

73. (New) The communications card of claim 72, where the thickness of the plug block constitutes at least about 70% of the thickness of the communications card.

74. (New) The communications card of claim 73, where the thickness of the plug block constitutes at least about 75% of the thickness of the communications card.

75. (New) The communications card of claim 74, where the thickness of the plug block constitutes at least about 85% of the thickness of the communications card.

76. (New) The communications card of claim 72, wherein the communications card complies with PCMCIA standards for a Type III card.

77. (New) The communications card of claim 72, wherein the biased clip receiving structure further comprises a first cutout formed on the first surface.

78. (New) The communications card of claim 77, further comprising a cover attached to the first surface, wherein the cover overlies the first cutout.

79. (New) The communications card of claim 78, wherein the cover has a thickness from about 0.001 inch to about 0.050 inches.

80. (New) The communications card of claim 78, wherein the cover is constructed from an elastic material.

81. (New) The communications card of claim 78, wherein the cover straddles the entire first surface of the communications card.

82. (New) The communications card of claim 72, further comprising:

a second surface, the second surface being substantially parallel to the first surface and the first surface and the second surface forming respective upper and lower surfaces of the communications card;

second recess means provided at the first end, the second recess means having dimensions such that a second RJ-xx plug is closely received therein, the second recess means being oriented such that the plug is received therein both between and parallel to the first and second surfaces;

a third electrical conductor provided in the second recess means, the third electrical conductor being positioned such that it makes electrical continuity with a third



electrical contact provided in the second RJ-xx plug when the second RJ-xx plug is received by the second recess means;

a fourth electrical conductor provided in the second recess means, the fourth electrical conductor being positioned such that it makes electrical continuity with a fourth electrical contact provided in the RJ-xx plug when the RJ-xx plug is received by the second recess means;

means for conveying any electrical signal present on the third and fourth electrical contacts to the communications device; and

a second biased clip receiving structure adjacent to the second recess means, the second biased clip receiving structure shaped to receive the biased clip when the RJ-xx series plug is inserted into the second recess means.

83. (New) The communications card of claim 82, wherein the second biased clip receiving structure further comprises a second cutout formed on the first surface.

84. (New) The communications card of claim 83, further comprising a cover attached to the first surface, wherein the cover overlies the second cutout.

85. (New) The communications card of claim 84, wherein the cover has a thickness from about 0.001 inch to about 0.050 inches.

86. (New) The communications card of claim 84, wherein the cover is constructed from an elastic material.

87. (New) The communications card of claim 84, further wherein the cover straddles the entire first surface of the communications card.

88. (New) The communications card of claim 84, further comprising a connector located on the first end, the connector adapted for communicatively connecting to a cable.

89. (New) The communications card of claim 88, further comprising a connector adapted for communicatively connecting to a portable phone.

90. (New) The communications card of claim 72, wherein the first surface is substantially planar and is selected from the group consisting of a top surface, a bottom surface, a first side surface, and a second side surface.

91. (New) The communications card of claim 82, wherein the second surface is an exterior surface of the communications card.

92. (New) The communications card of claim 72, further comprising a connector located on the first end, the connector adapted for communicatively connecting to a cable.

93. (New) The communications card of claim 92, further comprising a connector adapted for communicatively connecting to a portable phone.

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94. (New) A communications card for use in a data utilization device and for receiving an RJ-xx series plug for making electrical connection with at least first and second electrical contacts provided on the RJ-xx series plug, the RJ-xx series plug having a biased clip capable of assuming at least two positions including an insertion position wherein the biased clip is held against a flat surface of the plug and a fully expanded position biased to an angle within the range from about 14° to about 16° from the flat surface of the plug, the communications card comprising:

a thickness and a length substantially compliant with PCMCIA standards for a Type III card, the thickness of the

communications card conforming substantially to the thickness of the PCMCIA Type III standard of 10.5 millimeters;

a first surface, the first surface forming an outer surface of the card;

a first end;

first recess means provided at the first end, the first recess means having dimensions such that the RJ-xx series plug is closely received therein, the recess means being oriented such that the direction the RJ-xx series plug travels when being inserted into the recess means is substantially parallel to the first surface and substantially perpendicular to the first end, the recess means having dimensions such that when the RJ-xx series plug is inserted into the recess means, the biased clip of the RJ-xx series plug cannot bias to the fully expanded position within the dimensions of the recess means;

a first electrical conductor provided in the first recess means, the first electrical conductor being positioned such that it makes electrical continuity with a first electrical contact in the RJ-xx series plug when the RJ-xx series plug is received by the first recess means;

a second electrical conductor provided in the first recess means, the second electrical conductor being positioned such that it makes electrical continuity with a second

electrical contact in the RJ-xx series plug when the RJ-xx series plug is received by the first recess means;

means for conveying any electrical signal present on the first and second electrical contacts to the data utilization device; and

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a first biased clip receiving structure adjacent to the first recess means, the first biased clip receiving structure configured to receive the biased clip when the RJ-xx series plug is inserted into the first recess means and functioning to hold the biased clip and the RJ-xx series plug in operative engagement in the first recess means.

95. (New) The communications card of claim 94, wherein the first biased clip receiving structure further comprises a first cutout formed on a wall of the first recess means.

96. (New) The communications card of claim 94, wherein the first cutout extends through the first surface to form an opening.

97. (New) The communications card of claim 96, wherein the first cutout is configured such that the biased clip may bias to its fully expanded position through the opening.

98. (New) The communications card of claim 96, further

comprising a cover attached to the first surface, wherein the cover overlies the opening.

99. (New) The communications card of claim 98, wherein the cover has a thickness from about 0.001 inch to about 0.050 inches.

100. (New) The communications card of claim 98, wherein the cover is constructed from an elastic material.

*101.* (New) The communications card of claim 98, wherein the cover straddles the entire first surface of the communications card.

102. (New) The communications card of claim 94, wherein the first biased clip receiving structure further comprises a ledge adjacent to the first recess means.

103. (New) The communications card of claim 94, further comprising:

second recess means provided at the first end, the second recess means having dimensions such that a second RJ-xx series plug is closely received therein, the second recess means being oriented such that the second RJ-xx series plug is received therein both between and parallel to the first and

second surfaces and the recess means having dimensions such that when the second RJ-xx series plug is inserted into the second recess means, a second biased clip of the second RJ-xx series plug cannot bias to a fully expanded position within the dimensions of the second recess means;

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a third electrical conductor provided in the second recess means, the third electrical conductor being positioned such that it makes electrical continuity with a third electrical contact in the second RJ-xx series plug when the second RJ-xx series plug is received by the second recess means;

a fourth electrical conductor provided in the second recess means, the fourth electrical conductor being positioned such that it makes electrical continuity with a fourth electrical contact in the RJ-xx series plug when the RJ-xx series plug is received by the second recess means;

means for conveying any electrical signal present on the third and fourth electrical contacts to the data utilization device; and

a second biased clip receiving structure adjacent to the second recess means, the second biased clip receiving structure configured to receive the second biased clip when the RJ-xx series plug is inserted into the second recess means.

104. (New) The communications card of claim 103, wherein the second biased clip receiving structure further comprises a second cutout formed on a wall of the second recess means and extending through the first surface to form an opening such that the second biased clip of the RJ-xx series plug may bias to its fully expanded position through the opening.

105. (New) The communications card of claim 104, further comprising a cover attached to the first surface, wherein the cover overlies the opening.

106. (New) The communications card of claim 105, wherein the cover has a thickness from about 0.001 inch to about 0.050 inches.

107. (New) The communications card of claim 105, wherein the cover is constructed from an elastic material.

108. (New) The communications card of claim 105, wherein the cover straddles the entire first surface of the communications card.

109. (New) The communications card of claim 105, further comprising a connector located on the first end, the connector adapted for communicatively connecting to a cable.



110. (New) The communications card of claim 109, further comprising a connector adapted for communicatively connecting to a portable phone.

111. (New) The communications card of claim 102, wherein the second surface is an exterior surface of the communications card.

112. (New) The communications card of claim 94, further comprising a connector located on the first end, the connector adapted for communicatively connecting to a cable.

113. (New) The communications card of claim 112, further comprising a connector adapted for communicatively connecting to a portable phone.

114. (New) The communications card of claim 94, wherein the first surface is substantially planar and is selected from the group consisting of a top surface, a bottom surface, a first side surface, and a second side surface.

115. (New) A communications card for use in a data utilization device and for receiving an RJ-xx series plug, the plug having a biased clip and a plug block, the plug block bearing a first electrical contact and a second electrical contact, the

communications card making electrical connection with at least the first and the second electrical contacts provided on the plug block, the communications card comprising:

a thickness and a length which is substantially compliant with PCMCIA standards, the thickness of the communications card conforming substantially to thickness of the PCMCIA Type III standard;

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a first surface, the first surface forming an outer surface of the card;

a first end;

first recess means provided at the first end, the first recess means being oriented such that the direction the RJ-xx series plug travels when being inserted into the first recess means is substantially parallel to the first surface and substantially perpendicular to the first end;

two parallel sidewalls substantially perpendicular to the first end and substantially perpendicular to the first surface located at opposite ends of the first recess means, the two parallel sidewalls each having a length defining a thickness of the recess means, the length of the two parallel walls being within the range from about .255 inches to about .329 inches;

a third wall perpendicular to the first end and parallel to the first surface, the third wall having a length defining the width of the first recess means;

a first electrical conductor provided in the first recess means, the first electrical conductor being positioned such that it makes electrical continuity with the first electrical contact in the RJ-xx series plug when the RJ-xx series plug is received by the first recess means;

a second electrical conductor provided in the first recess means, the second electrical conductor being positioned such that it makes electrical continuity with the second electrical contact in the RJ-xx series plug when the RJ-xx series plug is received by the first recess means;

means for conveying any electrical signal present on the first and second electrical contacts to the data utilization device; and

a first biased clip receiving structure adjacent to the first recess means, the first biased clip receiving structure shaped to receive the biased clip when the RJ plug is inserted into the recess means and functioning to hold the biased clip and the RJ-xx series plug in operative engagement in the first recess means.

116. (New) The communications card of claim 115, where the length of the two parallel walls is within the range from about .260 inches to about .264 inches.

117. (New) The communications card of claim 115, where the length of the third wall is within the range from about .255 inches to about .464 inches.

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118. (New) The communications card of claim 115, wherein the communications card has a width which complies with PCMCIA standards for a Type III card.

119. (New) The communications card of claim 115, wherein the biased clip receiving structure further comprises a first cutout formed on a wall of the first recess means.

120. (New) The communications card of claim 119, wherein the first cutout extends through the first surface to form an opening.

121. (New) The communications card of claim 120, further comprising a cover attached to the first surface, wherein the cover overlies the opening.

122. (New) The communications card of claim 121, wherein the cover has a thickness in the range from about 0.001 inch to about 0.050 inches.

123. (New) The communications card of claim 121, wherein the cover is constructed from an elastic material.

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124. (New) The communications card of claim 121, wherein the cover straddles the entire first surface of the communications card.

125. (New) The communications card of claim 115, further comprising:

second recess means provided at the first end, the second recess means having dimensions such that a second RJ-xx series plug is closely received therein, the second recess means being oriented such that the second RJ-xx series plug is received therein both between and parallel to the first and second surfaces;

a third electrical conductor provided in the second recess means, the third electrical conductor being positioned such that it makes electrical continuity with a third electrical contact in the second RJ-xx series plug when the

second RJ-xx series plug is received by the second recess means;

a fourth electrical conductor provided in the second recess means, the fourth electrical conductor being positioned such that it makes electrical continuity with a fourth electrical contact in the second RJ-xx series plug when the second RJ-xx series plug is received by the second recess means;

means for conveying any electrical signal present on the first and second electrical contacts to the data utilization device; and

a second biased clip receiving structure adjacent to the second recess means, the second biased clip receiving structure configured to receive a second biased clip on the second RJ-xx series plug when the second RJ-xx series plug is inserted into the second recess means.

126. (New) The communications card of claim 125, wherein the second biased clip receiving structure further comprises a cutout formed on a wall of the second recess means.

127. (New) The communications card of claim 126, wherein the cutout extends through the first surface to form an opening.

128. (New) The communications card of claim 127, further comprising a cover attached to the first surface, wherein the cover overlies the opening.

129. (New) The communications card of claim 127, wherein the cover has a thickness from about 0.001 inch to about 0.050 inches.

130. (New) The communications card of claim 127, wherein the cover is constructed from an elastic material.

131. (New) The communications card of claim 127, wherein the cover straddles the entire first surface of the communications card.

132. (New) The communications card of claim 115, further comprising a connector located on the first end, the connector adapted for communicatively connecting to a cable.

133. (New) The communications card of claim 132, further comprising a connector adapted for communicatively connecting to a portable phone.

134. (New) The communications card of claim 115, wherein the first surface is substantially planar and is selected from the

group consisting of a top surface, a bottom surface, a first side surface, and a second side surface.

135. (New) The communications card of claim 125, further comprising a connector located on the first end, the connector adapted for communicatively connecting to a cable.

136. (New) The communications card of claim 135, further comprising a connector adapted for communicatively connecting to a portable phone.

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REMARKS

As an initial matter, Applicant wishes to thank the Examiner for the attention to this application and the commonly owned related applications.

Currently claims 36-136 are pending in this application, of which claims 36, 41, 62, 64, 72, 94 and 115 are independent claims.

Independent claims 36, 41, 62, 64 72, 94 and 115  
should be allowed.

Independent claims 36, 41, 62, 64 72, 94 and 115 contain subject matter that is also disclosed in the '332 patent to Glad. Priority to that application has been claimed by this Amendment. While the claims presented here differ in scope from the claims of the '332 patent, claims 36, 41, 62, 64 72, 94 and 115 should be